

**PHOTOCATALYST WITH TITANIUM DIOXIDE AS BASE MATERIAL AND ITS PRODUCTION**

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**Abstract**

**PROBLEM TO BE SOLVED:** To provide a photocatalyst being a titanium dioxide forming solid soln. with Nb (V).

**SOLUTION:** The titanium dioxide containing 0.1-5.0wt.% Nb<sub>2</sub>O<sub>5</sub> and having 50-350m<sup>2</sup>/g specific surface area or the titanium dioxide containing 0.1-5.0wt.% Nb<sub>2</sub>O<sub>5</sub> and having a crystalline diameter within a range of 80-250Å exhibit an excellent photocatalytic activity. The photocatalyst is obtained by adding a Nb(V) compd. to titanium sulfate or metatitanic acid and heating at ≤700 deg.C.

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